

High Power PM Isolator (1064nm, 1030nm, 980nm, up to 20W)



FEATURES

- ✓ Polarization Maintaining
- ✓ Low Insertion Loss
- ✓ High Isolation and Return Loss
- ✓ High Reliability and Stability

APPLICATIONS

- Fiber Laser
- Testing Instruments
- Mopa Fiber Laser
- Polarization Maintaining Fiber Amplifier

Specifications of High Power PM Isolator (1064nm, 1030nm, 980nm)

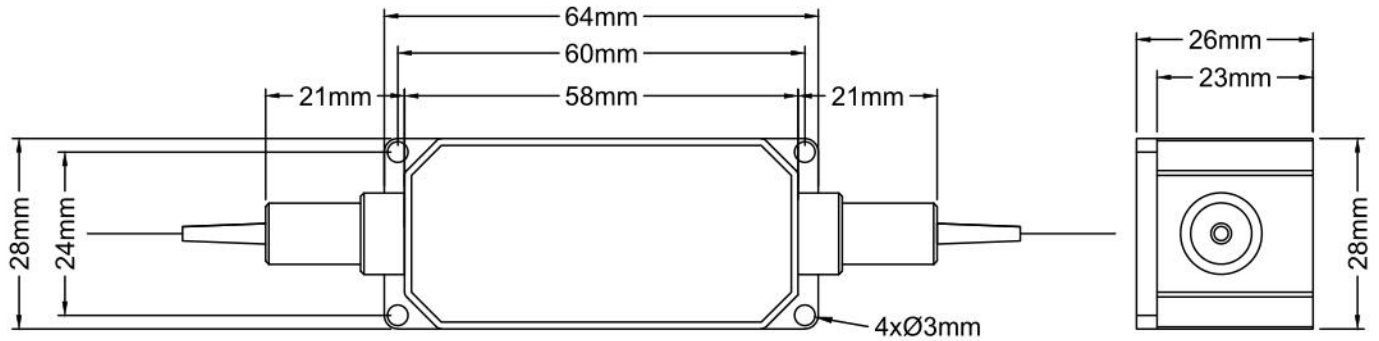
Center Wavelength (nm)	1064 or 1030 or 980
Operating Wavelength Range (nm)	±5
Typ. Peak Isolation at 23°C (dB)	30
Min. Isolation at 23°C (dB)	25
Typ. Insertion Loss at 23°C (dB)	0.8
Max. Insertion Loss at 23°C (dB)	1.0
Min. Extinction Ratio at 23°C	20
Min. Return Loss (Input /Output) (dB)	45
Max. Average Optical Power (W)	20 or Specified
Max. Peak Power for ns Pulse (kW)	10 or Specified
Max. Tensile Load (N)	5
Package Dimension (mm)	58x28x26
Operating Temperature (°C)	+10 to +50
Storage Temperature (°C)	0 to +60

Note:

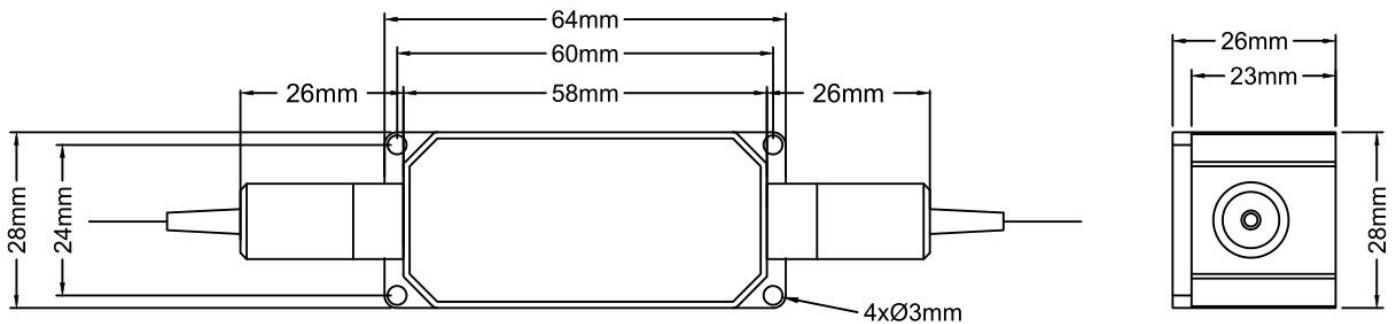
1. The high power PM isolator (1064nm, 1030nm, 980nm) is customizable, and the above specifications are subject to change without notice.
2. For CW high-power optical interconnection, we recommend fusion splice without connectors.
3. For device with connectors, IL is 0.3dB higher, RL is 5.0dB lower, ER is 2.0dB lower.
4. Unless otherwise specified, the slow axis of the fiber is aligned with the key of the PM fiber connector.
5. Slow axis working and fast axis blocked as standard, while operating on both the slow and fast axis available on request.
6. Bare fiber should not support the weight of the connector. So that if any connectors needed, for the pigtail type it's better to choose the 900µm loose tube jacket instead of the 250µm bare fiber.
7. For product customization or special requirements, please contact Lfiber's sales department for availability.



Package Dimensions



Maximum Optical Power Handling: 10W



Maximum Optical Power Handling: 20W

Ordering Information for High Power PM Isolator (1064nm, 1030nm, 980nm)

Center Wavelength	Axis Alignment	Fiber Type	Package Dimensions	Pigtail Type	Fiber Length	Connector	Average Power	Peak Power
1064nm	Slow axis working and fast axis blocked	PM1550	58x28x26 mm	Φ250μm bare fiber	0.5 m	None	500mW	10kW
1030nm	Fast axis working and slow axis blocked	PM1310	Specified	Φ900μm loose tube	0.8 m	FC/UPC	1W	20kW
980nm	Both axis working	PM980			1.0	FC/APC	2W	
		Specified			Others	SC/UPC	...	
						SC/APC	5W	
						LC/UPC	10W	
						LC/APC	20W	
						Others		

About Axis Alignment of the High Power PM Fiber Optical Isolator

"**Slow axis working and fast axis blocked**" means that light on just the slow axis is transmitted and the fast axis light is blocked in the forward direction; Both the slow and fast axis light are blocked in the backward direction.

"**Both axis working**" means that both the slow and fast axis light are transmitted in the forward direction, both the slow and fast axis light are blocked in the backward direction.



Optical Components, Fiber Optic Devices, Modules, and more.

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Email: sales@lfiber.com